

**Patent Apples: (NAGA-) NAGAI DENSHI KOGYO**

**Abstract (Basic): JP 62094912**

Mfr. of capacitor comprises forming (a) a valve-functioning metal film on one or both sides of an insulating material by vacuum evapn. plating; (b) forming an anodic oxide film on the film, (c) coating with a TCNQ complex by vacuum evapn. plating to form an organic semiconductor film; (d) coating a metal on the organic semiconductor film by sputtering to form a cathode film to obtain a basic element; and (e) coiling the basic element and providing electrode lead parts on both ends of the coiled element.

The insulating material is made of a plastic film or plastic sheet. The TCNQ complex includes 2,2'-bipyridinium (TCNQ)<sub>2</sub>, 4-hydroxy-N-benzylanilinium (TCNQ)<sub>2</sub>, 4-amino-2,3,5,6-tetramethyl anilinium (TCNQ)<sub>2</sub>, pyridinium (TCNQ)<sub>2</sub>, 4-cyano-N-methylpyridinium (TCNQ)<sub>2</sub>, N-ethylquinolinium (TCNQ)<sub>2</sub>, N-(2-phenetyl)quinolinium (TCNQ)<sub>2</sub>.

**USE/ADVANTAGE** - The capacitor does not have any spacer but has the TCNQ complex-contg. organic semiconductor film, and the temp. stability is improved.

## MANUFACTURE OF TOROIDAL ELECTROLYTIC CAPACITOR

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